

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A microchip, comprising:
a first substrate; and
a second substrate connected with the first substrate to define a connecting
surface therebetween, the first substrate and the second substrate defining a
microchannel in the connecting surface by a first groove part of the first substrate and a
second groove part of the second substrate, wherein
the microchannel includes a gap part, the gap part having a sectional size
variable by a movable protruding part in the first groove part or in the second groove
part.
~~having a microchannel formed by groove parts provided in connecting surfaces~~
~~of upper and lower substrates, wherein the microchannel is provided with a gap part in~~
~~which the section of the channel is reduced in a central part upward and downward,~~
~~rightward and leftward, or upward and downward and rightward and leftward the section~~
~~thereof.~~
2. (Currently Amended) The microchip according to claim 1, wherein the gap part is
formed by a first protruding part of the first groove part and a second protruding part of
the second groove part. ~~protruding parts in the groove parts.~~

3. (Currently Amended) The microchip according to claim 2, wherein ~~the gap part is formed by the opposed protruding parts in the groove parts provided respectively in the~~ first protruding part is opposed to the second protruding part. ~~the upper and lower substrates.~~

4. (Currently Amended) The microchip according to claim 2, ~~any one of claims 1 to 3,~~ wherein the gap part is formed by inserting the first protruding part in the second groove part or by inserting the second protruding part in the first groove part. ~~of one substrate into the groove part of the other substrate.~~

5. (Currently Amended) The microchip according to claim 2, wherein the movable protruding part is the first protruding part or the second protruding part. ~~any one of claims 1 to 4, the size of the section of the gap part can be varied by at least one movable protruding part of the upper and lower substrates.~~

6. (Currently Amended) The microchip according to claim 1, ~~any one of claims 1 to 5,~~ wherein the sectional size of ~~the section of~~ the gap part is a size necessary for checking microbeads inserted into the microchannel.

7. (Currently Amended) The microchip according to any one of claims 1 to 6, wherein the microchannel has an ~~[[the]]~~ inner wall surface ~~of the microchannel is~~ decorated with a surface treatment agent.

8. (Currently Amended) A kit for extracting nucleic acid, including:
the microchip according to ~~any one of claims 1 to 7~~ claim 1; and
microbeads having surface hydroxyl groups introduced into the microchannel of
the microchip.
9. (Currently Amended) The kit for extracting nucleic acid according to claim 8,
wherein the microbeads ~~having the surface hydroxyl groups are~~ include at least one
~~kind~~ of silica microbeads having a diameter of 10 μm or smaller, hollow silica
microbeads, and resin microbeads.
10. (Currently Amended) The kit for extracting nucleic acid according to claim 8,
wherein ~~or 9, wherein in the microchannel of the microchip having the surface hydroxyl-~~
~~groups on the inner wall surface;~~ the surface hydroxyl groups are coated with a coupling
~~surface treatment agent~~.
11. (Currently Amended) The kit for extracting nucleic acid according to claim 10,
wherein the coupling agent includes ~~surface treatment agent~~ is a silane coupling agent
including trialkyl halogenosilane as a main component.
12. (Currently Amended) ~~An extracting~~ A method for extracting nucleic acid using
the kit according to claim 8, ~~for extracting nucleic acid according any one of claims 8 to~~
~~11;~~ wherein the nucleic acid ~~in liquid~~ to be processed is adsorbed on the surfaces of the

microbeads introduced in the microchannel of the microchip.

13. (Currently Amended) The ~~extracting method for nucleic acid~~ according to claim 12, wherein the nucleic acid is adsorbed on the surfaces of the microbeads under the existence of chaotropic ions.